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May 26, 2000

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Subcontract Proposal for the Development of Beta Version Software

Background:

Client requires software to provide a portable solution for bird identification in the field. The first phase of development will include working with suitable test information, scanning and rescaling images, modifying sound tracks, and create suitable database structure(s) to interface with newly designed software. Second and third phase will include required software to handle transferring selected data to MP3 Player and to hand held computers.

Objective:

Create software for Phase I to allow user to select a group of birds native to a region of North America. Once region is selected, provide a listing of birds with their scientific name and appropriate references to field guide(s) with page numbers. Further, allow user to display a picture of selected bird by region of habitat, and listen to the song and/or sounds this bird makes. Also, allow user to enter a memo to track sightings.

**Methodology:**

Phase I – provide a beta version suitable for initial testing.

Scan test visual images into viewable bitmaps. Work with rescaling to provide pleasing displays for software output.

Convert test song recordings into wav files. Work with audio formats and compression routines to reduce size to a minimum.

Prepare pleasing computer image of habitat region map for initial user selection of region to work in.

Create suitable databases(s).

Design software to:

- 1: display North America Regions

- 2: list birds in a selected region

- 3: display their picture

- 4: play their song(s)

- 5: display their range map

- 6: display their scientific name

- 7: list field guide reference(s) with page number.

- 7: Provide a user memo function to record their bird sightings.

Prepare software for help file inclusion as required

Provide master CD for duplication for limited group testing.

Future development:

Phase II - add functionality to program to interface with selected MP3 player.

Conversion of wav files to MP3 compressed file format.

Add user selection of bird songs to be uploaded to portable MP3 player.

Phase III – add functionality to program to interface with Compaq Aero 2100 computer.

Conversion of wav files to compressed file format usable in Windows CE operating system on Aero

Add user selection of bird songs to be uploaded to portable Aero computer.

**Effort and Costs:**

Scan test visual images into viewable bitmaps	40 Hrs	\$30 /Hr	\$1200.00
Convert test song recordings into wav files	40 Hrs	\$50 /Hr	\$2000.00
Phase I software design and beta production	100 Hrs	\$80 /Hr	\$8000.00
TOTAL			\$11200.00

Deliverables:

Client will receive a Master CD, which will consist of installable beta software, associated database files, and sound and image data files.

Schedule:

Start June 1, 2000

Finish: September 31, 2000

'Alpha' program 'builds' will be produced as work progresses for use during bi-weekly discussion meetings. Possible modifications/additions/changes will be assigned priorities during development cycle.

Technical information produced, belongs to 1404844 Ont. Inc. Appropriate copyrights will be assigned and displayed in the deliverable beta software package.

Proposal submitted by:

A handwritten signature in dark ink, appearing to read "Dave Pletsch".

Dave Pletsch

Date:

May 26/00.

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